CLAIM AMENDMENTS

1-14 (canceled)

15. (new) A gas supply arrangement of a marine vessel adapted to carry liquefied gas in a gas tank having an ullage space section and a liquid phase section, which arrangement provides gas for demands of the vessel, the arrangement comprising:

a gas supply line for delivering gas formed in the gas tank to a consumption device, and

a piping extending from the liquid phase section of the gas tank to the ullage space section of the gas tank,

wherein said piping is provided with a pump for introducing gas into the ullage space section, a heat transfer unit for influencing the temperature of the gas introduced into the ullage space section, a bypass conduit passing by the heat transfer unit, and a three-way valve for controlling the gas flow between the heat transfer unit and the bypass conduit,

and wherein the heat transfer unit comprises a heat exchanger arranged in the piping.

16. (new) A gas supply arrangement according to claim 15, comprising a first sensor adapted for measuring the pressure in the ullage space section of the gas tank, and wherein the piping is provided with a control valve and the first sensor is arranged in control communication with the control valve.

17. (new) A gas supply arrangement according to claim 16, comprising a second sensor adapted for measuring the temperature in the ullage space section of the gas tank, and wherein the second sensor is arranged in control communication with the three-way valve.

18. (new) A method of providing gas to a gas consumption device in a marine vessel with a liquefied gas tank having an ullage space section and liquid phase section, comprising:

evaporating gas in the gas tank and leading the evaporated gas to the consumption device via a gas supply line while substantially continuously measuring the pressure in the gas tank by a first sensor,

controlling the evaporation rate of the gas in the gas tank by controllably spraying liquefied gas into the ullage space section of the gas tank,

controlling the flow rate of sprayed liquefied gas based on the pressure measurement of the first sensor, and

controlling the temperature of the sprayed gas based on temperature value measured by a second sensor provided in connection with the ullage space section of the gas tank.

19. (new) A method according to claim 18, comprising controlling the evaporation rate of the gas by controlling the temperature of the sprayed gas.